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- Tundra, sea, and river hydrotechnical projects, a part of tremendous construction developments in the northern oblasts, require high quality cement.
- 2. The production of Portland cement is rather high at the present time. This is in consequence of the tremendous reserves of high-grade mortar available on the shore of the Black San in Mortroselak Oblast. The composition of this mortar makes it a ready raw material for preparation of Portland cement.
- 3. For almost 30 years, the USER has been developing successfully the production of varieties of coment other than Portland. These are, sing cement, aluminum silicate cement, and purpose coment. Sing cement from basic (non-acid) blast furnice sing tem ponceus not exceeding Sig.

 Aluminum silicate cement has about to been. This has the advantage of reaching considerable hardness in a short time, an important quality considering construction conditions in the north. This quality results from both chemical composition and high temperatures as a base. This is something in the nature of volcanic from Tripoli clay trass [sic]. Much of the sing, aluminum silicate, and puscolan cement is used active water is required.
- 4. There should be 54 dement plants in the USSR today. New factories are being built in the vicinity of industrial centers. All are almost completely mechanised and equipped with modern machinery. They use local fuel and raw materials. Overall production amounts to 46 million parrels and employees number 35,000.

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- 5. Principal production centers of cament (mainly Portland) are Novorossisk, Vol'sk (a town of the Nizhne-Volzhskiy /Lower Volga/ Kray), and Amvrosiyevka (a rayon center in the Donbas). The last named has a railroad station and is located 87 km from Taganrog. Three cement factories operate with 1800 workers in this center. A fourth one is being planned. There also are two ceramic plants operating with an average of 400 workers. Quarries of chalk mortar represent raw material for the silicate industry of this region. An average of 150 workers is employed in producting mortar. At the village of Kuteynikovo there are two brick kilns which service
- 6. The former BMaterinoslav province of the Ukraine has little stone but that which is there is of high quality. There is Volyn' marble and on the right river bank is granite. Ukrainian granite is used for construction purposes in almost the entire UBER. Granite quarries in Ekaterinoslav Oblast' are located as follows: (1) eight quarries at Velyka Mokra; (2) one granite quarry and two sand quarries at the village of Peredatochna [Sio]; (3) granite at Velyka Tomashivka [probably Tomashiprojects in the entire UBER) at the village of Pidgtepna [Sio]; (5) one quarry of high quality granite at the village of Kokolivka [Sio]; (5) one quarry of granite at syenite at the village of Kokolivka [Sio]; (5) one quarry of granite stenihorodka [Sio]; (8) kaolin of high quality (under the Soviet regime kaolin is used as ballast for railroads) at Pyatykhatka [probably Pyatikhatki]; (9) one quarry of granite at Savro [Sio]; (10) one quarry of granite at Karyatovka [Sio]; (11) sand ballast for the top layer of railways) at the village of Heniches'k [Sio].
- 7. The Donbas region has sand and mortar. Sand deposits are located at the village of Laryno Sic/, the village of Ilarionovo Sic/, and Kakeivka Sic/. Limestyne is located in the se-called Yelenovs kyi Sic/ quarries. Mortar of a rather high quality is located at the village of Yasynuvata Sic/. Dolomite is obtained in the

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